

Title (en)

Threaded connection with improved root thread profile

Title (de)

Gewindeanschluss mit verbessertem Gewindekernprofil

Title (fr)

Raccord fileté présentant un meilleur profil fileté de racine

Publication

EP 2602423 B1 20180912 (EN)

Application

EP 12193698 A 20121121

Priority

US 201113315354 A 20111209

Abstract (en)

[origin: EP2602423A2] A threaded connection design having a double ellipse in the thread root for reducing stress fatigue is illustrated in this disclosure. The root groove includes a first portion comprising a first elliptical surface being part of a first ellipse. The root groove further includes a second portion comprising a second elliptical surface, being part of a second ellipse, and the second elliptical surface being joined tangentially at a first end to the first elliptical surface at a junction point that defines the bottom of the root groove. The second elliptical surface is joined tangentially at a second end to the load flank.

IPC 8 full level

E21B 17/042 (2006.01); **F16L 15/06** (2006.01)

CPC (source: CN EP US)

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